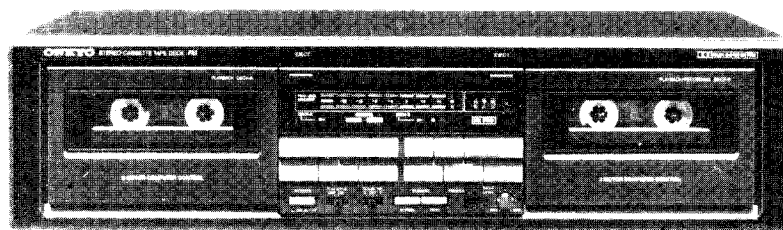


# ONKYO SERVICE MANUAL

## STEREO CASSETTE TAPE DECK MODEL TA-W111



UDN, UDC, UD	120V AC, 60Hz
UP	230V AC, 50Hz
UW	120 or 220V AC, 50/60Hz
UQA	240V AC, 50Hz

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK **Δ** ON THE SCHEMATIC DIAGRAM AND IN THE PARTS LIST ARE CRITICAL FOR RISK OF FIRE AND ELECTRIC SHOCK. REPLACE THESE COMPONENTS WITH ONKYO PARTS WHOSE PARTS NUMBERS APPEAR AS SHOWN IN THIS MANUAL.

MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

### SPECIFICATIONS

Track System: 4-tracks, 2-channels  
 Erasing System: AC erase  
 Tape Speed: 4.8 cm/sec. (1-7/8 i.p.s.)  
 9.6 cm/sec. (3-3/4 i.p.s.) (high speed dubbing)  
 Wow and Flutter: 0.07% (WRMS)  
 Frequency Response: 20 – 15,000Hz (Normal)  
 (30 – 14,000Hz  $\pm$  3dB)  
 20 – 16,000Hz (High)  
 (30 – 15,000Hz  $\pm$  3dB)  
 20 – 17,000Hz (Metal)  
 (30 – 16,000Hz  $\pm$  3dB)

S/N Ratio: Dolby NR off: 58dB (metal position tape)  
 A noise reduction of 10dB above 5kHz and 5dB at 1kHz is possible with Dolby B NR.  
 A noise reduction of 20dB at 5kHz is possible with Dolby C NR.

Input Jacks: Line IN: 2  
 Input sensitivity: 80mV  
 Input impedance: 50 kohms

Outputs: Line OUT: 2  
 Standard output level: 500mV (0dB)  
 Optimum load impedance: over 1 kohms

Motors: DC servo motor x 2; DC motor x 2  
 Heads: REC/PB: 1  
 PB: 1  
 ERASE: 1

Power Supply Rating: U.K. and Australian models:  
 AC 240V, 50Hz  
 U.S.A. and Canadian models: AC 120V, 60Hz  
 Worldwide models: AC 120V and 220V switchable, 50/60Hz

Power Consumption: 33 watts

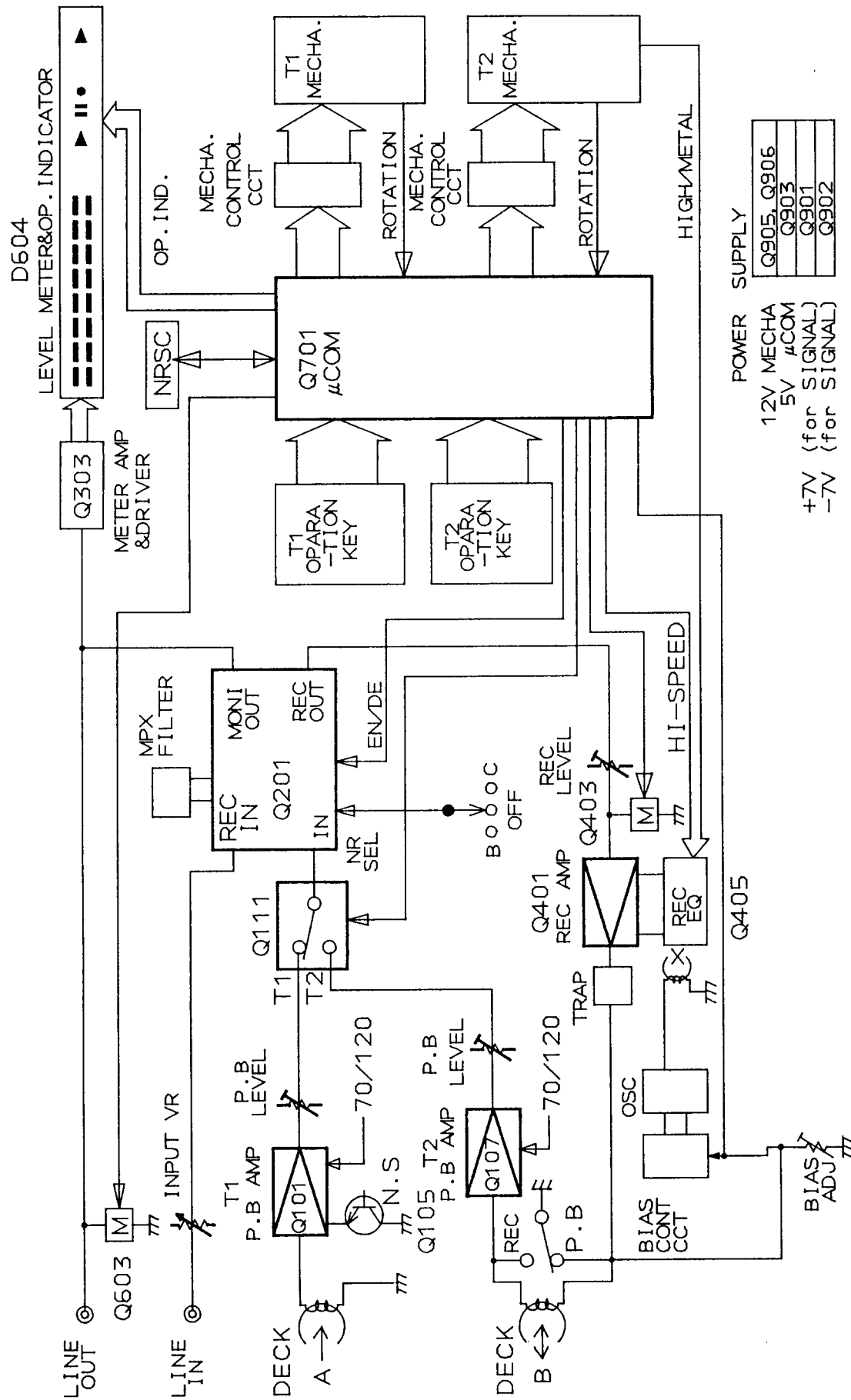
Dimensions: 455(W) x 120(H) x 306(D)mm  
 (17-15/16" x 4-3/4" x 12-1/16")

Weight: 5.6 kg. (12.3 lbs.)

Specifications and external appearance are subject to change without notice because of product improvements

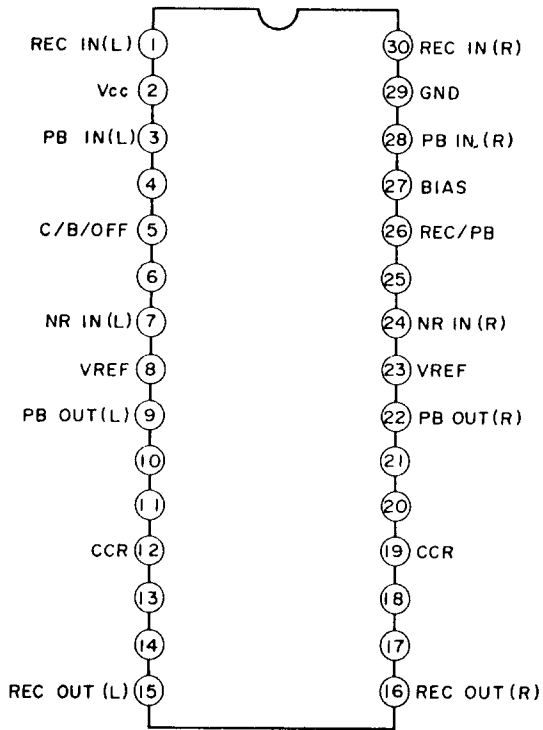
**ONKYO®**  
**AUDIO COMPONENTS**

## BLOCK DIAGRAM

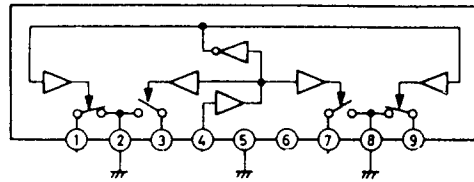


# IC BLOCK DIAGRAM

## HA12142NT (DOLBY NR)



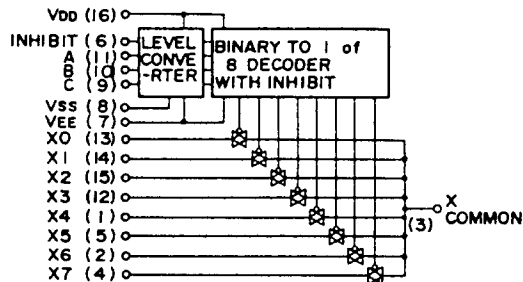
## $\mu$ PC 1330HA (REC/PB SW)



## $\mu$ PC1330HA

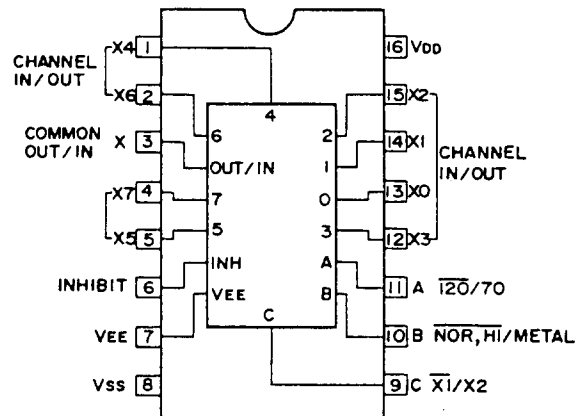
Pin No.	Function
1, 9	PB. signal
2	GND
3, 7	REC signal
4	REC/PB SW control
5	GND
6	+B
8	GND

## 4051B (ANALOG SW)



INHIBIT	A(11)	B(10)	C(9)	ON SWITCH
L	L	L	L	X0 (13)
L	H	L	L	X1 (14)
L	L	H	L	X2 (15)
L	H	H	L	X3 (12)
L	L	L	H	X4 (1)
L	H	L	H	X5 (5)
L	L	H	H	X6 (2)
L	H	H	H	X7 (4)
H	X	X	X	NONE

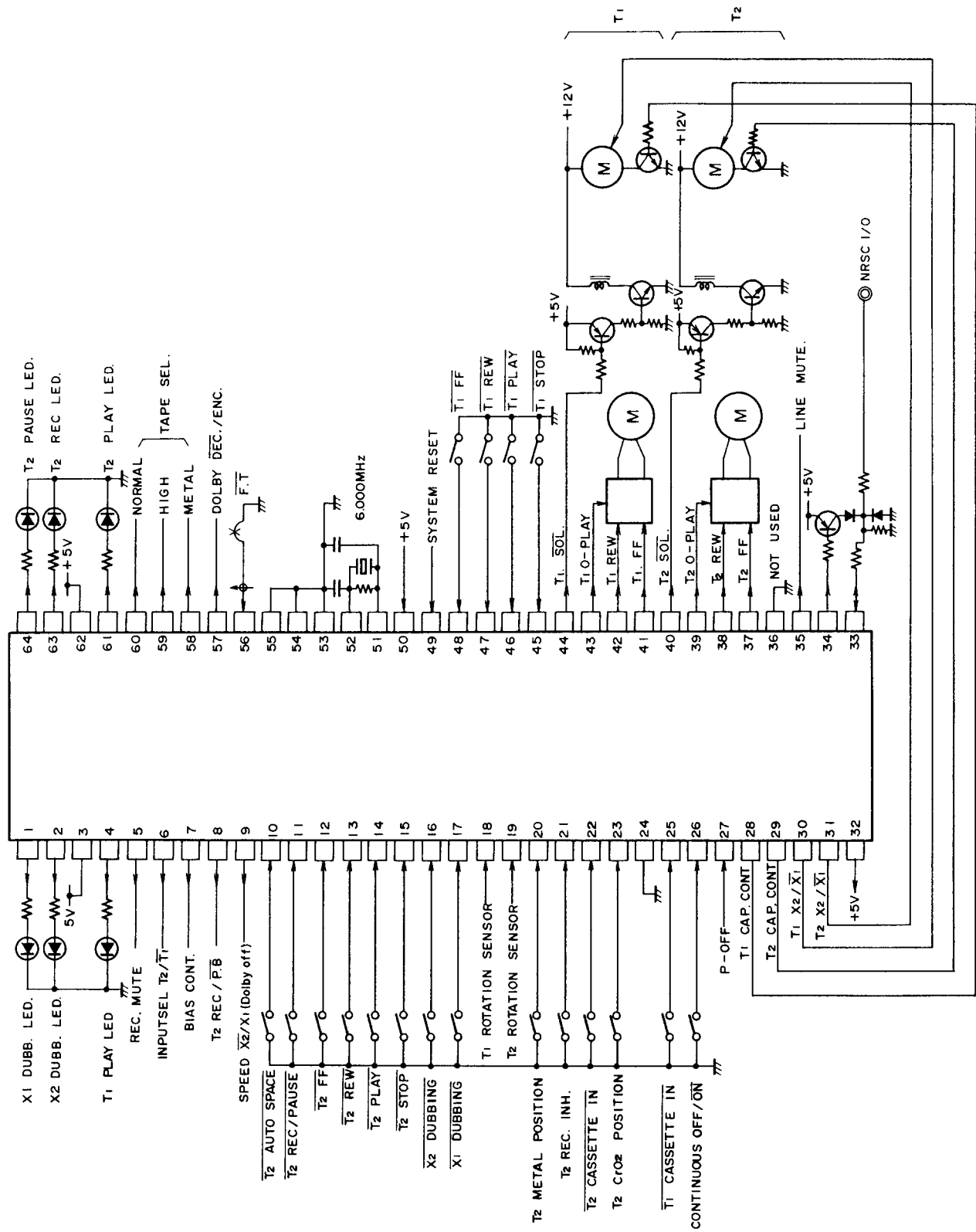
X: Don't Care



# MICRO COMPUTER PORT NAMES AND FUNCTION (HD614049 SA-B05)

No.	Name	IN/OUT	Function
1	X1 DUBBING LED	O	Dubbing indication, H:ON
2	X2 DUBBING LED	O	Dubbing indication, H:ON
3	NC		
4	T1 FWD. LED	O	FWD play indication, H:ON
5	REC. MUTE	O	Recording muting, H:ON
6	INPUT SEL. T2/T1	O	T1/T2 play back signal selection
7	BIAS CONTROL	O	Bias oscillation control, H:ON
8	REC/PB	O	REC/PB selection
9	SPEED X1/X2	O	Tape speed selection
10	T2 AUTO SPACE	I	Auto space operation
11	T2 REC/PAUSE	I	REC/PAUSE operation
12	T2 FF	I	Fast forward operation
13	T2 REW	I	Rewind operation
14	T2 PALY	I	FWD-PLAY operation
15	T2 STOP	I	STOP operation
16	X2 DUBBING	I	Dubbing operation
17	X1 DUBBING	I	Dubbing operation
18	T1 ROTATION-SENSOR	I	Reel rotation sensor
19	T2 ROTATION-SENSOR	I	Reel rotation sensor
20	METAL SW.	I	Record equalizer selection (METAL)
21	T2 REC. INH.	I	Recording prevention
22	T2 CASSETTE IN	I	Cassette loading detection
23	CrO <sub>2</sub> SW.	I	Record equalizer selection (HIGH)
24	NC		
25	T1 CASSETTE IN	I	Cassette loading detection
26	CONTINUOUS	I	CONTINUOUS OFF/ON
27	P-OFF	I	Power OFF detection
28	T1 CAPSTAN ON/OFF	O	Capstan motor control
29	T2 CAPSTAN ON/OFF	O	Capstan motor control
30	T1 SPEED X2/X1	O	Tape speed control
31	T2 SPEED X2/X1	O	Tape speed control
32	V <sub>cc</sub>		V <sub>CC</sub> +5V
33	NRSC IN	I	Remote control signal
34	NRSC OUT	O	Remote control signal
35	LINE MUTE	O	Line muting
36	NOT USED		
37	T2 REEL-FF	O	Reel motor rotation fast forward
38	T2 REEL-REW	O	Reel motor rotation in rewind
39	T2 O-PLAY	O	Reel motor rotation PLAY with "H"
40	T2 SOLENOID	O	Solenoid drive
41	T1 REEL-FF	O	Reel motor rotation fast forward
42	T1 REEL-REW	O	Reel motor rotation in rewind
43	T1 O-PLAY	O	Reel motor rotation PLAY with "H"
44	T1 SOLENOID	O	Solenoid drive
45	T1 STOP	I	STOP operation
46	T1 PALY	I	FWD-PLAY operation
47	T1 REW	I	Rewind operation
48	T1 FF	I	Fast forward operation
49	SYSTEM RESET		System reset for microcomputer
50	TEST		
51, 52	OSC1, OSC2		System clock OSC
53	GND		GND
54	NOT USED		
55	NOT USED		
56	FT		
57	DOLBY ENC/DEC	O	Dolby ENC/DEC selector
58	TAPE SEL. METAL	O	Tape selector
59	TAPE SEL. HIGH	O	Tape selector
60	TAPE SEL. NORMAL	O	Tape selector
61	T2 PLAY LED	O	PLAY indication, H:ON
62	NC		
63	T2 REC. LED	O	REC indication, H:ON
64	T2 PAUSE LED	O	PAUSE indication

# MICRO COMPUTER (HD614049SA-B05)



# ADJUSTMENT PROCEDURES

## PRECAUTIONS

- Before adjustment, clean the following parts with an alcohol moistened swab.
  - \* record/playback head
  - \* erase head
  - \* pinch roller
  - \* capstan
- Do not use magnetized screwdriver for adjustments.
- Demagnetize record/playback head with a head demagnetizer.

## TEST EQUIPMENT/TOOLS REQUIRED:

Audio oscillator

Digital frequency counter

Oscilloscope

Attenuator

AC voltmeter

Non-magnetic screw driver

Test tapes

TCC-153 : 10 KHz, - 5dB

MTT-111 : 3 kHz, - 0dB

MTT-150 : Dolby level calibration  
400Hz, tone 200nWb/m

Item	Connection of instrument	Line input	Test tape	Mode	Output indicator	Adjustment point	Adjust	Remarks
1	Tape speed Frequency counter to LINE output terminal		MTT-111	PB	Frequency counter	T1 Normal R728 T1 High R731 T2 Normal R747 T2 High R750	3005±5Hz 6010±10Hz 3005±5Hz 6010±10Hz	High speed connect the TP5 (T1) to GND TP-6 (T2) to GND High speed first
2	Head azimuth AC voltmeter and oscilloscope to LINE output terminal		TCC-153	PB	AC voltmeter	Head azimuth screw	Maximum and same phase at channels L and R	fig-1
3	Play-back level AC voltmeter to terminals TP-3 and TP-4		MTT-150	PB	AC voltmeter	T1 R113 (Ch.L) T1 R114 (Ch.R) T2 R131 (Ch.L) T2 R132 (Ch.R)	300mV	
4	OSC Block Frequency counter to P401 read loose coupling		T2 METAL TAPE MX-C90	T2 REC	Frequency counter	L403	85kHz±2kHz	
5	Bias current fig-2	1kHz, -20dB and 12kHz, -20dB	UD-1 C-90	REC/PB	AC voltmeter	R473 (Ch.L) R474 (Ch.R)	Same level at REC/PB	Input VR maximum.
6	Record level fig-2	1kHz	UD-1 C-90	REC	AC voltmeter	Attenuator or AF OSC output	350mV	
				REC/PB	AC voltmeter	R405 (Ch.L) R406 (Ch.R)	Same level at REC/PB	

Blank tape

NORMAL .....UD-1 C-90

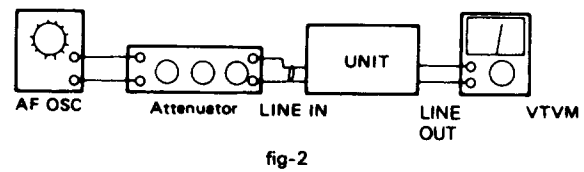
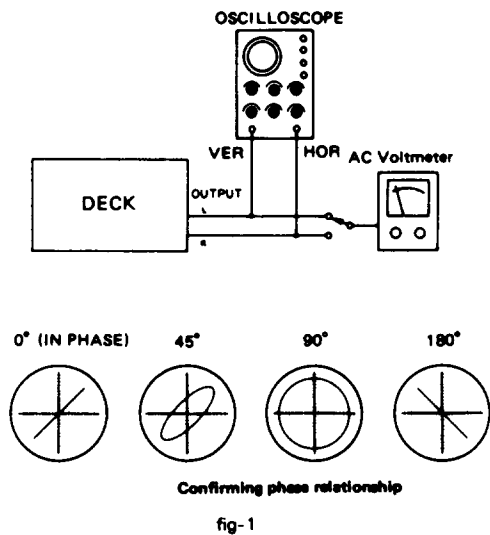
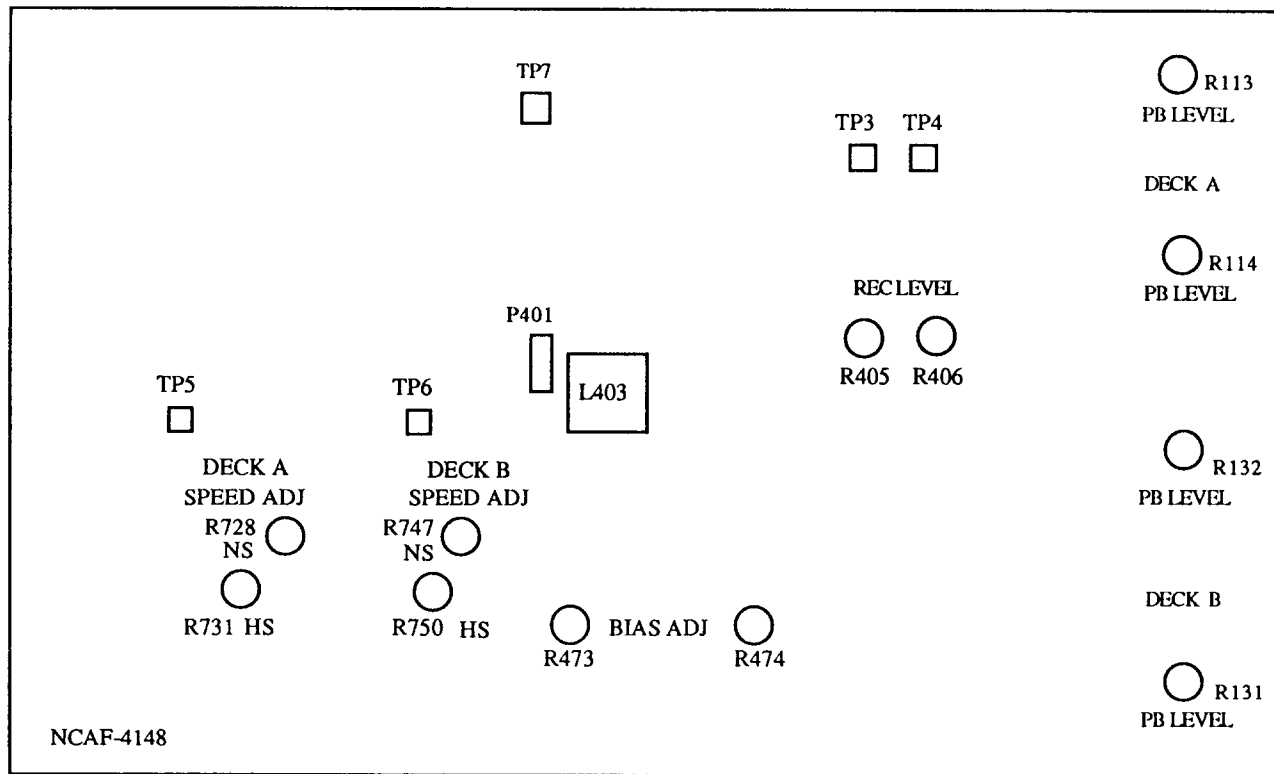
HIGH .....XL-II C-90

METAL .....MX C-90

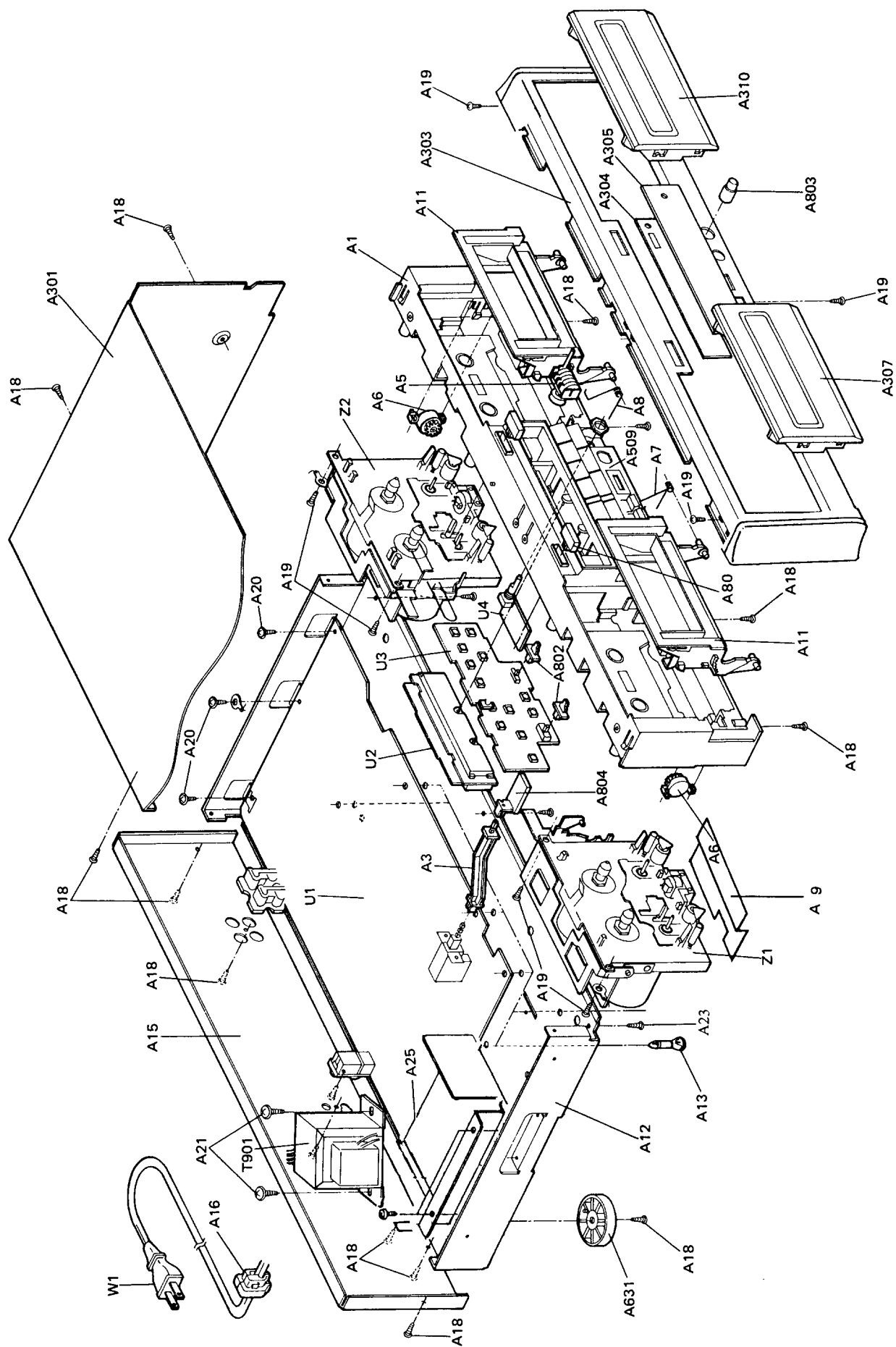
PLAY torque.....30~70g/cm

FF. REW torque.....80~180g/cm

Back tension .....2~7g/cm



## CHASSIS-EXPLODED VIEW





## CHASSIS-EXPLODED VIEW PART LIST

REF.NO.	PARTS NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
A1	27110646Y	FRONT BRACKET AS	A802	28324233Y	KNOB (DOL)
A3	27273135A	JOINT (POW)	A803	28324338	KNOB (VOL)
A5	24601220	TAPE COUNTER	A804	28324234Y	KNOB (POW)
A6	28400282	DAMPER	△ S902	25065123	NSS-1258P (W)
A7	27180477A	SPRING (A)	△ T901	2300632	NPT-1100D (D)
A8	27180476A	SPRING (B)	△	2300633	NPT-1100P (P)
A9	27130646DY	BRACKET (F)	△	2300634	NPT-1100DG (W)
A11	28400473-1A	FRAME AS (CASSETTE)	U1	1N109548-7	NAAF-4148-7
-a	28400463B	FRAME (CASSETTE)	U2	1N109549-7	NADIS-4149-7
-b	27180435	SPRING	U3	1N109550-7	NASW-4150-7
-c	28141109	CUSHION	U4	1N109551-7	NAETC-4151-7
A12	27100233	CHASSIS	W1	253112A	AC CORD AS-UC-4 #18 (D)
A13	27190480	HOLDER	△	253164	AC CORD AS-CEE (P/W)
A15	27121546Y	BACK PANEL (D)	△	244153	CASSETTE DECK MECHANISM
	27121546-1Y	BACK PANEL (P)	Z1		NDM-143
	27121546-2Y	BACK PANEL (W)	Z2	244154	CASSETTE DECK MECHANISM
A16	27300750	BUSHING (CORD)			NDM-144
A18	834430088	TAP-TIGHT SCREW 3TTS+8B(BC)			
A19	833430080	TAP-TIGHT SCREW 3TTP+8P(BC)			
A20	831130088	TAP-TIGHT SCREW 3TTW+8B			
A21	830440069	TAP-TIGHT SCREW 4×6			
A23	835430068	TAP-TIGHT SCREW 3TTF+6B(BC)			
A25	27130608D	BRACKET (PT)			
A301	28184479	TOP COVER			
A302	28140837	CUSHION 250×10×9t			
A303	1N129701K	FRONT PANEL			
-a	28125226BY	END CAP (L)			
-b	28125227BY	END CAP (R)			
-c	27215205Y	COSMETIC FRAME			
-d	28135199	BADGE			
A304	28133277Y	BACK PLATE			
A305	28191586Y	CLEAR PLATE			
A307	28400710Y	CASSETTE LID AS (A)			
-a	28400711Y	CASSETTE LID (A)			
-b	28400625	WINDOW			
A310	28400710-1Y	CASSETTE LID AS (B)			
-a	28400711-1Y	CASSETTE LID (B)			
-b	28400625	WINDOW			
A509	27215221	COSMETIC FRAME			
A631	27175254	LEG AS			
A801	28324232Y	KNOB (EJ)			

NOTE (D): Only 120V model  
(P): Only 230V model  
(W): Only worldwide model

NOTE: THE COMPONENTS IDENTIFIED BY MARK  
△ ARE CRITICAL FOR RISK OF FIRE AND  
ELECTRIC SHOCK. REPLACE ONLY WITH  
PART NUMBER SPECIFIED.

# PRINTED CIRCUIT BOARD PARTS LIST

**NAAF-4148-7**

CIRCUIT NO.	PART NO.	DESCRIPTION	CIRCUIT NO.	PART NO.	DESCRIPTION
				2213284	2SC1740S-R
			Q905, Q906	2202115 or 2202116	2SD2061-E or 2SD2061-F
	<b>Ics</b>			<b>Diodes</b>	
Q101	222956	NJM-2068D-D	D602-D604	223163	1SS133
Q107	222956	NJM-2068D-D	D701	224450752	MTZ7.5B
Q111	222840661	4066B	D702	224450433	MTZ4.3C
Q201	22240388	HA12142NT	D703	223163	1SS133
Q401	22240267	CXA1198AP	D704	224450752	MTZ7.5B
Q405	222840511	4051B	D705	224450433	MTZ4.3C
Q605	22240147	μPC1330HA	D706, D707	223163	1SS133
Q701	22240483	HD614049SAB05	D708	224150562 or 224650562	05AZ5.6Y or HZ5.6EB2
Q702	22240239	TA-7291S	D709	223163	1SS133
Q710	22240239	TA-7291S	D901-D906	22380046	AM01Z
Q901	222780065JRC	78M06	D907, D908	223163	1SS133
Q902	222790065JRC	79M06	D909	224150623 or 224650623	05AZ6.2Z or HZ6.2EB3
Q903	222780055MIT	78M05	D910	224151303 or 224650623	05AZ13Z or HZ6.2EB3
	<b>Transistors</b>		D911-D914	223163	1SS133
Q103-Q106	2213285 or 2213284	2SC1740S-S or 2SC1740S-R		<b>Coils</b>	
Q109, Q110	2213285 or 2213284	2SC1740S-S or 2SC1740S-R	L201, L202	233407	NMC-6079
Q113	221281 or 2213570	DTC114YS or RN1207	L401, L402	231165	NTR-6506
Q203	221281 or 2213570	DTC114YS or RN1207	L403	231063	NLO-2037
Q205	2212600 or 2213580	DTA124ES or RN2203	X701	3010149	CST6.00MGW
Q403, Q404	2213285 or 2213284	2SC1740S-S or 2SC1740S-R		<b>Capacitors</b>	
Q407	221281 or 2213570	DTC114YS or RN1207	C111, C112	354742219	220μF16V, ELECT.
Q408	2212855 or 2212853	2SB1068-U or 2SB1068-K	C123, C124	354742219	220μF16V, ELECT.
Q409	2211706 or 2211705	2SD655-F or 2SD655-E	C203-C206	354784799	0.47μF50V, ELECT.
Q410	221281 or 2213570	DTC114YS or RN1207	C207	354742209	22μF16V, ELECT.
Q411, Q412	2211544	2SC1959-Y	C213, C214	354780229	2.2μF50V, ELECT.
Q601	221281 or 2213570	DTC114YS or RN1207	C221, C222	354741019	2.2μF50V, ELECT.
Q602	2213355 or 2213354	2SA933S-S or 2SA933S-R	C401, C402	354780109	1μF50V, ELECT.
Q603, Q604	2211706 or 2211705	2SD655-F or 2SD655-E	C403-C406	354780229	2.2μF50V, ELECT.
Q703, Q704	221281 or 2213570	DTC114YS or RN1207	C407	354722219	220μF6.3V, ELECT.
Q705	2211945	2SK246-GR	C408	354744709	47μF16V, ELECT.
Q706	2212600 or 2213580	DTA124ES or RN2203	C411	370131234	0.012μF100V, APS
Q707, Q708	2211706 or 2211705	2SD655-F or 2SD655-E	C601	354780479	4.7μF50V, ELECT.
Q709	2211255	2SC1815-GR	C604	354784799	0.47μF50V, ELECT.
Q711, Q712	221281 or 2213570	DTC114YS or RN1207	C607	354742219	220μF16V, ELECT.
Q713	2211945	2SK246-GR	C701	354742209	22μF16V, ELECT.
Q714	2212600 or 2213580	DTA124ES or RN2203	C703	354741019	100μF16V, ELECT.
Q715, Q716	2211706 or 2211705	2SD655-F or 2SD655-E	C707	354741019	100μF16V, ELECT.
Q717	2211255	2SC1815-GR	C711	354780109	1μF50V, ELECT.
Q718, Q719	2212600 or 2213580	DTA124ES or RN2203	C901	3500065A	0.01μF AC400V, IS.
Q720	2212600 or 2213580	DTA124ES or RN2203	C903	393152227S	2200μF25V, ELECT.
Q904	2213285 or	2SC1740S-S or	C904	354742219	220μF16V, ELECT.
			C906	393152227S	2200μF25V, ELECT.
			C907	354742219	220μF16V, ELECT.
			C909	393156827S	6800μF25V, ELECT.
			C911	354742219	220μF16V, ELECT.
			C913-C915	354741019	100μF16V, ELECT.
			C916	354780479	4.7μF50V, ELECT.
			C917	354742219	470μF16V, ELECT.
			C919	354742219	470μF16V, ELECT.
			C921	354742219	220μF16V, ELECT.
			C923	354742219	220μF16V, ELECT.
			C927	354741019	100μF16V, ELECT.
			C929	354741019	100μF16V, ELECT.
			C935, C936	354722219	220μF6.3V, ELECT.

CIRCUIT NO.	PART NO.	DESCRIPTION
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**Resistors**

R113, R114	5210220	N06HR50KBD
R131, R132	5210220	N06HR50KBD
R405, R406	5210064	N06HR 10KBD
R458	442520104F	RS1/2WBJ 1Ω
R459	442523304F	RS1/2WBJ 3.3Ω
R460	442521514F	RS1/2WBJ 150Ω
R461	442522714F	RS1/2WBJ 270Ω
R465, R466	5210070	N06HR100KBD
R724	442524704F	RS1/2WBJ 47Ω
R728	5210218	N06HR20KBD
R731	5210217	N06HR10KBD
R743	442524704F	RS1/2WBJ 47Ω
R747	5210218	N06HR20KBD
R750	5210217	N06HR10KBD
R903	441622704F	RS1/2WBJ 27Ω
R905, R906	442520224F	RS1/2WBJ 2.2Ω

**Switch**

S901	25035558	NPS-111-L520P
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**Plug, socket**

P101	25055133	NPLG-3P117
P102	25055136	NPLG-6P120
P201	25045329	NPS-4PDBL183
P401	25055132	NPLG-2P-116
P701	25045330	NPJ-2PDBL184
P702A	2000991	NSAS-14P943
P703A	2000992	NSAS-6P944
P704A	2000990	NSAS-6P942
P705A	2000991	NSAS-14P943
P706A	2000992	NSAS-6P944
P707A	2002391010	NSAS-10P0035

**Miscellaneous**

27160211-1	RAD-68B, RADIATOR
27160211	RAD-68, RADIATOR
27141059	BRACKET
25050092	NTM-1S33, TERMINAL
82143006	3P+6FN(BC)

**NADIS-4149-7**

CIRCUIT NO.	PART NO.	DESCRIPTION
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**IC**

Q303, Q304	222623	IR2E02
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**LED**

D604	225253	LS-0241
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**Capacitors**

C301, C302	353750479S	4.7μF25V, ELECT.
C303, C304	353780109S	1μF50V, ELECT.
C305	353750479S	4.7μF25V, ELECT.

**Socket**

P708A	2000985A or 200098A	NSAS-18P937 or NSAS-18P934
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**NASW-4150-7**

CIRCUIT NO.	PART NO.	DESCRIPTION
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**Switch**

S201	25065297	NSS-23119
S701-S704	25035548	NPS-111-S510
S706	25065364	NSS-12138
S707-S710	25035548	NPS-111S510
S712-S715	25035548	NPS-111S510

**NAETC-4151-7**

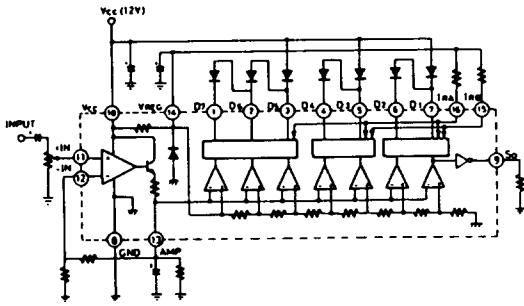
CIRCUIT NO.	PART NO.	DESCRIPTION
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**Resistors**

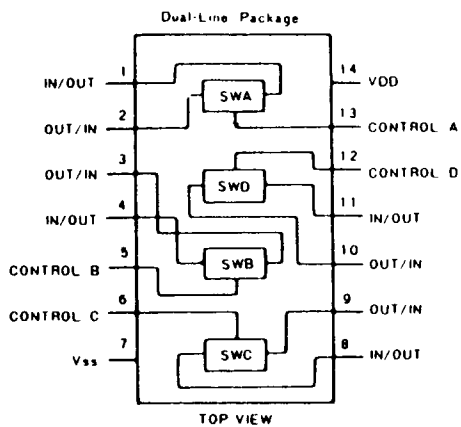
R203, R204	5104214	N09R2L50KA15F
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## IC BLOCK DIAGRAM

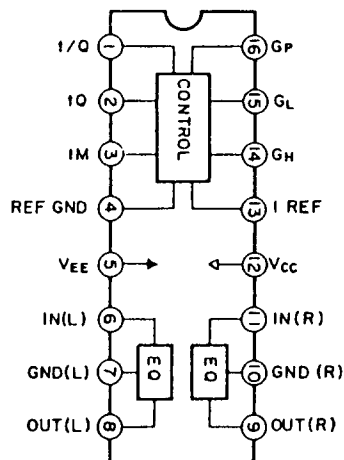
### IR-2E02 (LEVEL METER DRIVE)



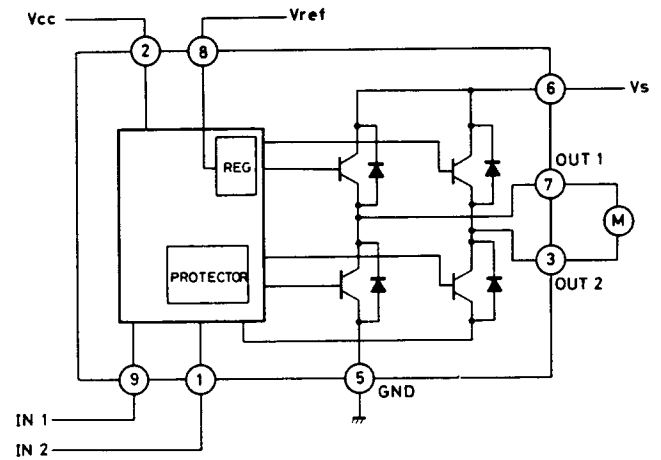
### 4066B (ANALOG SW)



### CXA1198A (REC EQ)

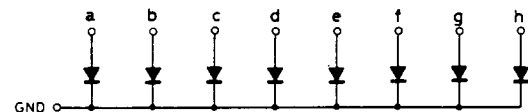
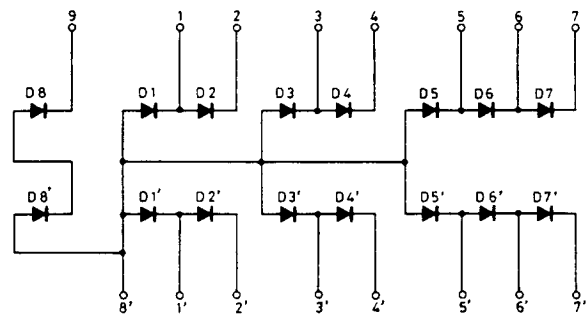
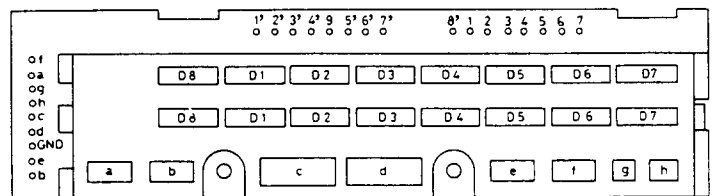


### TA7291S (MOTOR DRIVE)



INPUT		OUTPUT		MODE
IN 1	IN 2	OUT 1	OUT 2	
0	0	∞	∞	STOP
1	0	H	L	CW/CCW
0	1	L	H	CCW/CW
1	1	L	L	BRAKE

### LS0241 (DISPLAY TUBE)



D1 ~ D4, D8, D1' ~ D4' D8; a, b, e, f, --- GRN  
D5 ~ D7, D5' ~ D7'; c, d, g, h ----- RED

## TAPE MECHANISM PARTS LIST (DECK-B)

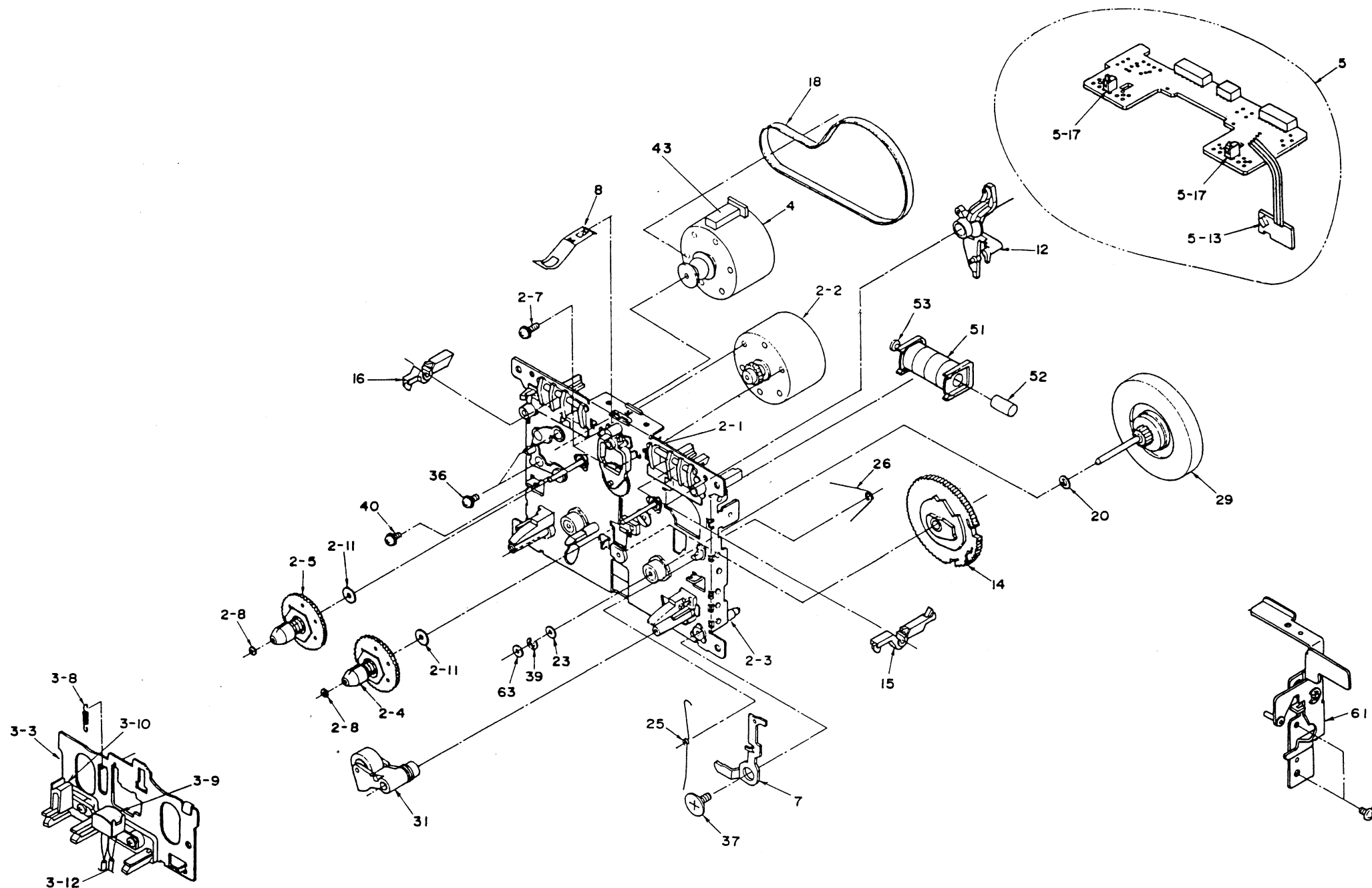
REF.NO.	PART NO.	DESCRIPTION
2-1	24602482	IDLER AS
2-2	24601245	REEL MOTOR
2-3	24611382B	BASE AS (CHASSIS)
2-4	24602483	BASE AS (REEL)
2-5	24602484	BASE AS (REEL)
2-7	24609032	PAN HEAD SCREW 2.6×6.4ZN
2-8	24611177	PLASTIC WASHER 1.7×0.25t
2-11	24611175	PLASTIC WASHER 2.1×0.25t
3-3	24611501	HEAD BASE
3-8	24605711	SPRING
3-9	24600067	R/P HEAD
3-10	24600032	E HEAD
3-11	24606472	LEAD WIRE (R/P)
3-12	24606473	LEAD WIRE (E)
4	24601252	MAIN MOTOR AS
5	24606428	P.C.B. AS (CONTROL)
5-13	24606463	PHOTO REFLECTOR
5-17	24606271	PUSH SWITCH
7	24607102	ARM (EJECT) L
8	24605739	SPRING
12	24607116	ARM (PLAY)
14	24602485A	CAM GEAR (3R)
15	24603365A	LEVER (REC)
16	24603366	LEVER (PACK) (L)
17	24603367	LEVER (METAL) (L)
18	24602539	MAIN BELT
20	24611041	PLASTIC WASHER 2.6×0.25t
23	24610841	PLASTIC WASHER 2.6×0.55t
25	24605741	SPRING
26	24605716	SPRING
29	24602487	FLYWHEEL AS
31	24602541	PINCH ROLLER AS (R)
36	24609001	PAN HEAD SCREW SW2.6×5ZN
37	24609006A	SCREW
39	8930151	E WASHER 1.5S
40	838130080	WAVE SCREW 3×8ZN
43	24611488	CUSHION (HOLDER)
51	24606333	SOLENOID COIL AS
52	24606332A	CORE
53	24606331	PLANGER
61	24611449	PLATE HOLDER AS
62	833126049	TAP-TIGHT SCREW 2.6TTP+4C
63	24611188A	WASHER (OIL SEAL)
68	24602404	COUNTER BELTE

## TAPE MECHANISM PARTS LIST (DECK-A)

REF.NO.	PART NO.	DESCRIPTION
2-1	24602482	IDLER AS
2-2	24601245	REEL MOTOR
2-3	24611382B	BASE AS (CHASSIS)
2-4	24602483	BASE AS (REEL)
2-5	24602484	BASE AS (REEL)
2-7	24609032	PAN HEAD SCREW 2.6×6.4ZN
2-8	24611177	PLASTIC WASHER 1.7×0.25t
2-11	24611175	PLASTIC WASHER 2.1×0.25t
3-3	24611501	HEAD BASE
3-8	24605711	SPRING
3-9	24600066	P HEAD
3-10	24600048	E HEAD (DUMMY)
3-12	24606474	LEAD WIRE (R/P)
4	24601252	MAIN MOTOR AS
5	24606430	P.C.B. AS (CONTROL)
5-13	24606463	PHOTO REFLECTOR
5-17	24606271	PUSH SWITCH
7	24607065B	ARM (EJECT) L
8	24605739	SPRING
12	24607116	ARM (PLAY)
14	24602485A	CAM GEAR (3R)
15	24603365A	LEVER (REC)
16	24603369	LEVER (PACK)
18	24602539	MAIN BELT
20	24611041	PLASTIC WASHER 2.6×0.25t
23	24610841	PLASTIC WASHER 2.6×0.55t
25	24605762	SPRING
26	24605716	SPRING
29	24602487	FLYWHEEL AS
31	24602541	PINCH ROLLER AS (R)
36	24609001	PAN HEAD SCREW SW2.6×5ZN
37	24609006A	SCREW
39	8930151	E WASHER 1.5S
40	838130080	WAVE SCREW 3×8ZN
43	24611488	CUSHION (HOLDER)
51	24606333	SOLENOID COIL AS
52	24606332A	CORE
53	24606331	PLANGER
61	24611447	PLATE HOLDER AS
62	833126049	TAP-TIGHT SCREW 2.6TTP+4C
63	24611188A	WASHER (OIL SEAL)

A B C D E F G

CAPE MECHANISM-EXPLODED VIEW (DECK-A)



A

B

C

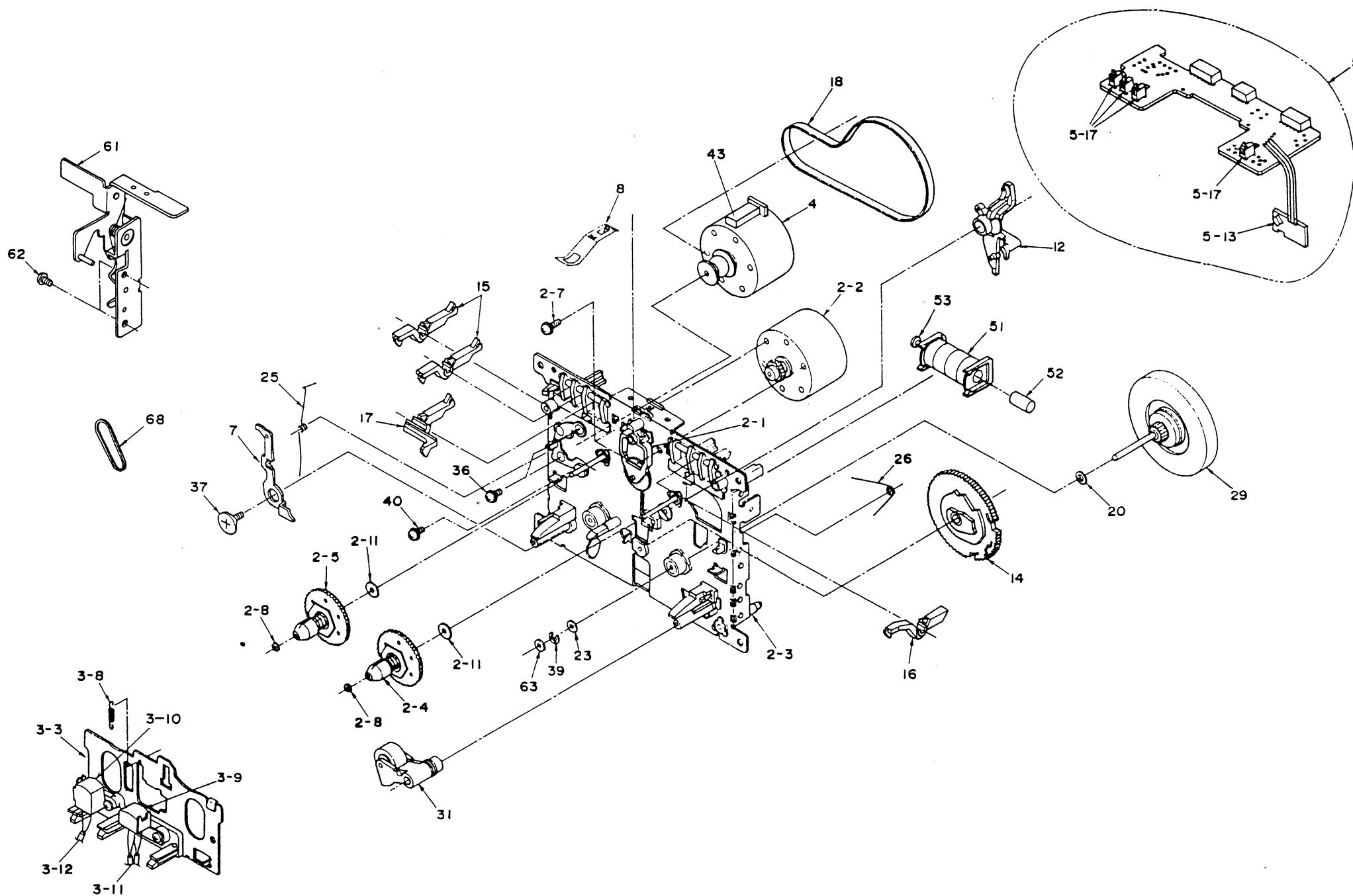
D

E

F

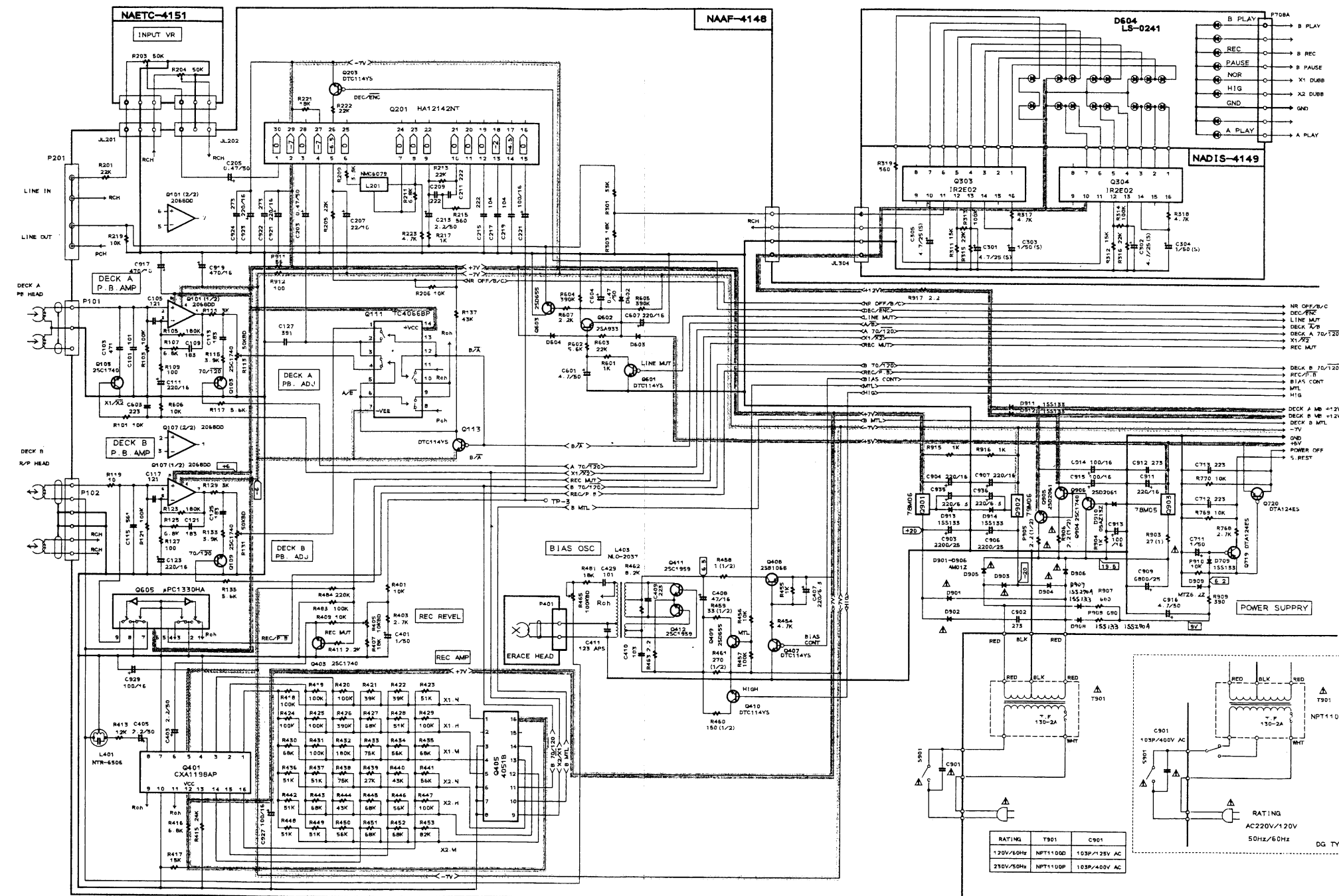
G

## PE MECHANISM-EXPLODED VIEW (DECK-B)

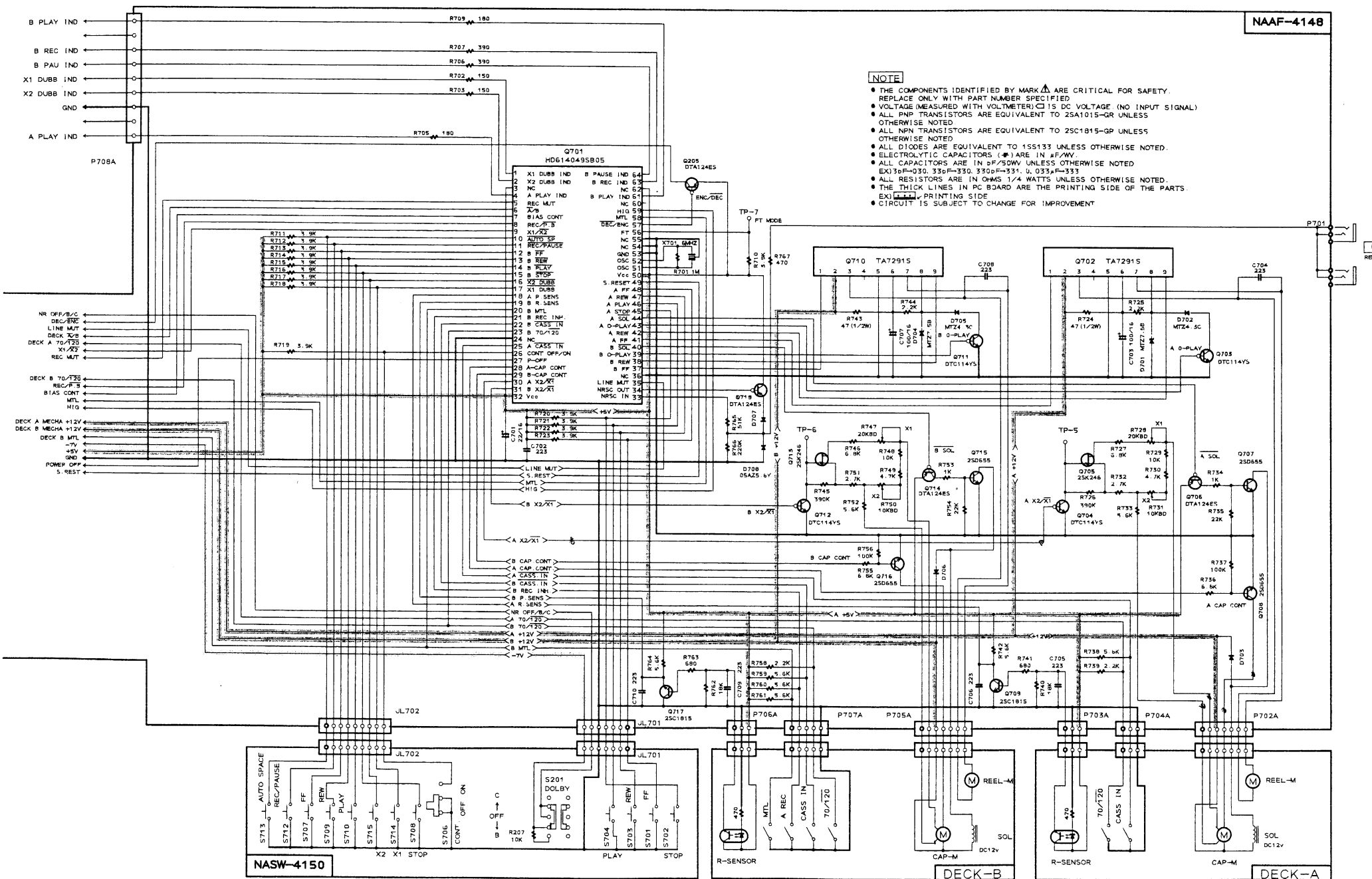




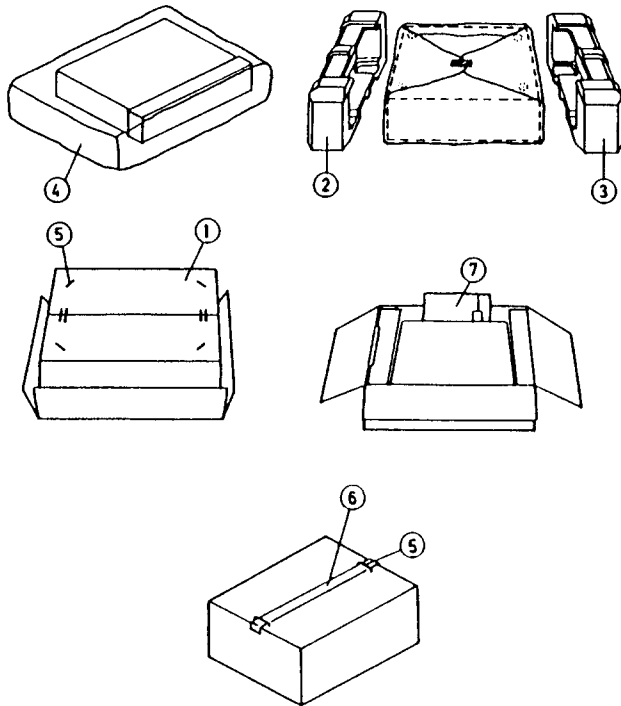
## SCHEMATIC DIAGRAM (AUDIO SECTION) 1/2



# SCHEMATIC DIAGRAM (CONTROL SECTION) 2/2



## PACKING VIEW



## PACKING PART LIST

REF.NO.	PART NO.	DESCRIPTION
1	29052344AY	Master carton box
2	29091452B	Pad (L)
3	29091453B	Pad (R)
4	29100105	620×550 Poly bag
5	282301	Sealing hook
6	29110071	Damplon tape
7		<b>Accessory bag ass'y</b>
	29341690	Instruction manual (D)
	29341717Y	Instruction manual (G/W/C)
	2010098A	Connection cable
	29100006A	350×250 Poly bag
	29365019A	Warranty card (N)
	25055040	CV plug CV-K-2 (W)
	29358002J	Service station list (N)

NOTE (D): Only 120V model  
 (N): Only U.S.A. model  
 (W): Only worldwide model  
 (C): Only Canadian model

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